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After review of the air emissions license renewal application, staff investigation reports and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A., Section 344 and Section 590, the Department finds the following facts:

I. REGISTRATION

A. Introduction

Rumford Community Hospital (RCH) of Rumford, Maine has applied to renew their Air Emission License permitting the operation of emission sources associated with their healthcare facility.

RCH has also requested to remove the two old emergency generators and replace them with one new emergency generator.

B. Emission Equipment

RCH is authorized to operate the following equipment:

Fuel Burning Equipment

Equipment	Maximum Capacity (MMBtu/hr)	Maximum Firing Rate (gal/hr)	Fuel Type, <u>% sulfur</u>	Stack #
Boiler #1	10.5	69.0	#6, 2.0%	1
Boiler #2	10.5	69.0	#6, 2.0%	2

Electrical Generation Equipment

Equipment	Power Output (kW)	Firing Rate (gal/hr)	Stack #
Generator #1	125	11.4	3
Generator #2	115	10.0	4
Generator #3	600	42.7	5

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C. Application Classification

An existing source is considered a major source based on whether or not expected emissions exceed the "Significant Emission Levels" as given in Maine's Air Regulations. This source is determined to be a minor source based on Maine's Air Regulations. This application is determined to be a renewal of a minor source with a minor modification and has been processed as such.

II. BEST PRACTICAL TREATMENT (BPT)

A. Introduction

In order to receive a license the applicant must control emissions from each unit to a level considered by the Department to represent Best Practical Treatment (BPT), as defined in Chapter 100 of the Air Regulations. Separate control requirement categories exist for new and existing equipment as well as for those sources located in designated non-attainment areas.

BPT for existing emissions equipment means that method which controls or reduces emissions to the lowest possible level considering:

- the existing state of technology;
- the effectiveness of available alternatives for reducing emission from the source being considered; and
- the economic feasibility for the type of establishment involved.

BPT for new sources and modifications requires a demonstration that emissions are receiving Best Available Control Technology (BACT), as defined in Chapter 100 of the Department's regulations. BACT is a top-down approach to selecting air emission controls considering economic, environmental and energy impacts.

B. Boilers #1 and #2

RCH operates boilers #1 and #2 each having a maximum design heat input capacity of 10.5 MMBtu/hr firing #6 fuel oil with a maximum sulfur content not to exceed 2.0% by weight. Boilers #1 and #2 are Cleaver-Brooks boilers manufactured in 1974 and are therefore not subject to EPA New Source Performance Standards (NSPS) Subpart Dc for boilers manufactured after June 9, 1989.

BPT for boilers #1 and #2 shall consist of the following.

- Use of #6 fuel oil with a sulfur content not to exceed 2.0%.
- MEDEP Chapter 103 contains an applicable PM emission limit.
- SO₂, NO_X, CO and VOC emission rates are based on AP-42 data dated 10/96 for oil fired boilers smaller than 100 MMBtu/hr.

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- Visible emissions from boilers #1 and #2 shall not exceed an opacity of 30 percent on a six (6) minute block average basis, except for no more than two (2) six (6) minute block averages in a 3-hour period.

C. Emergency Generators #1 and #2

RCH operates two existing emergency generators (#1 and #2) which are soon to be removed. These two emergency generators shall be licensed until July 1, 2004, after which only the new emergency generator #3 shall be licensed.

"Emergency" is defined in Chapter 100 and throughout this document as: "... any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology based emission limitation under the license, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error."

BPT for emergency generators #1 and #2 shall consist of the following:

- Emergency generators #1 and #2 shall be limited to 500 hrs of operation combined on a 12 month rolling total. An operating log shall be kept to document compliance.
- Use of Diesel fuel with a sulfur content not to exceed 0.05%. Delivery receipts shall be kept documenting sulfur content.
- A BPT PM emission limit of 0.12 lb PM/MMBtu shall be used.
- SO₂, NO_X, CO and VOC emission rates are based on AP-42 data dated 10/96 for Stationary Internal Combustion Engines smaller than 600 hp.
- Visible emissions from emergency generators #1 and #2 shall be limited to no more than 20% opacity on a six minute block average, except for no more than two (2) six (6) minute block averages in a 3-hour period.

D. Emergency Generator #3

RCH proposes to install one larger generator to replace emergency generators #1 and #2. The license for this generator shall be in effect after July 1, 2004.

"Emergency" is defined in Chapter 100 and throughout this document as: "... any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology based emission limitation under the license, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment,

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lack of preventative maintenance, careless or improper operation, or operator error."

BACT for emergency generator #3 shall consist of the following:

- Emergency generators #3 shall be limited to 500 hrs of operation on a 12 month rolling total. An operating log shall be kept and an hour meter shall be operated to document compliance.
- Use of diesel fuel with a sulfur content not to exceed 0.05%. Delivery receipts shall be kept documenting sulfur content.
- MEDEP Chapter 103 contains an applicable PM emission limit.
- SO₂, NO_x, CO and VOC emission rates are based on AP-42 data dated 10/96 for Stationary Internal Combustion Engines larger than 600 hp.
- Visible emissions from emergency generator #3 shall be limited to no more than 20% opacity on a six minute block average, except for no more than two (2) six (6) minute block averages in a 3-hour period.

E. Annual Emissions and Fuel Use Limits

- RCH shall be limited to firing 200,000 of #6 fuel oil with a sulfur content not to exceed 2.0%. (12 month rolling total) Delivery receipts shall be kept documenting quantity received and sulfur content.
- Emission from RCH shall not exceed the following:

Total Allowable Annual Emission for the Facility

(used to calculate the annual license fee)

(tons/year)

Emission Unit	PM	PM_{10}	SO_2	NO_X	CO	VOC
Boilers #1 and #2	3.00	3.00	31.52	5.50	0.50	0.16
Emergency Generators #1 and #2	0.09	0.09	0.04	3.23	0.70	0.26
Emergency Generator #3	0.18	0.18	0.08	4.68	1.24	0.13
Total	3.27	3.27	31.64	13.41	2.44	0.55

III. AMBIENT AIR QUALITY ANALYSIS

According to the Maine Regulations Chapter 115, the level of air quality analyses required for a renewal source shall be determined on a case-by case basis. Based on the license allowed emissions, RCH is below the emissions level required for modeling and monitoring.

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ORDER

Based on the above Findings and subject to conditions listed below, the Department concludes that the emissions from this source:

- will receive Best Practical Treatment,
- will not violate applicable emission standards,
- will not violate applicable ambient air quality standards in conjunction with emissions from other sources.

The Department hereby grants Air Emission License A-331-71-G-R/A subject to the following conditions:

- (1) Employees and authorized representatives of the Department shall be allowed access to the licensee's premises during business hours, or any time during which any emissions units are in operation, and at such other times as the Department deems necessary for the purpose of performing tests, collecting samples, conducting inspections, or examining and copying records relating to emissions (Title 38 MRSA §347-C).
- (2) The licensee shall acquire a new or amended air emission license prior to commencing construction of a modification, unless specifically provided for in Chapter 115. [MEDEP Chapter 115]
- (3) Approval to construct shall become invalid if the source has not commenced construction within eighteen (18) months after receipt of such approval or if construction is discontinued for a period of eighteen (18) months or more. The Department may extend this time period upon a satisfactory showing that an extension is justified, but may condition such extension upon a review of either the control technology analysis or the ambient air quality standards analysis, or both. [MEDEP Chapter 115]
- (4) The licensee shall establish and maintain a continuing program of best management practices for suppression of fugitive particulate matter during any period of construction, reconstruction, or operation which may result in fugitive dust, and shall submit a description of the program to the Department upon request. [MEDEP Chapter 115]
- (5) The licensee shall pay the annual air emission license fee to the Department, calculated pursuant to Title 38 M.R.S.A. §353. [MEDEP Chapter 115]
- (6) The license does not convey any property rights of any sort, or any exclusive privilege. [MEDEP Chapter 115]

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- (7) The licensee shall maintain and operate all emission units and air pollution systems required by the air emission license in a manner consistent with good air pollution control practice for minimizing emissions. [MEDEP Chapter 115]
- (8) The licensee shall maintain sufficient records to accurately document compliance with emission standards and license conditions and shall maintain such records for a minimum of six (6) years. The records shall be submitted to the Department upon written request. [MEDEP Chapter 115]
- (9) The licensee shall comply with all terms and conditions of the air emission license. The filing of an appeal by the licensee, the notification of planned changes or anticipated noncompliance by the licensee, or the filing of an application by the licensee for a renewal of a license or amendment shall not stay any condition of the license. [MEDEP Chapter 115]
- (10) The licensee may not use as a defense in an enforcement action that the disruption, cessation, or reduction of licensed operations would have been necessary in order to maintain compliance with the conditions of the air emission license. [MEDEP Chapter 115]
- (11) In accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department, the licensee shall:
 - A. perform stack testing to demonstrate compliance with the applicable emission standards under circumstances representative of the facility's normal process and operating conditions:
 - 1. within sixty (60) calendar days of receipt of a notification to test from the Department or EPA, if visible emissions, equipment operating parameters, staff inspection, air monitoring or other cause indicate to the Department that equipment may be operating out of compliance with emission standards or license conditions; or
 - 2. pursuant to any other requirement of this license to perform stack testing.
 - B. install or make provisions to install test ports that meet the criteria of 40 CFR Part 60, Appendix A, and test platforms, if necessary, and other accommodations necessary to allow emission testing; and
 - C. submit a written report to the Department within thirty (30) days from date of test completion.

[MEDEP Chapter 115]

- (12) If the results of a stack test performed under circumstances representative of the facility's normal process and operating conditions indicate emissions in excess of the applicable standards, then:
 - A. within thirty (30) days following receipt of such test results, the licensee shall re-test the non-complying emission source under circumstances representative

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- of the facility's normal process and operating conditions and in accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department; and
- B. the days of violation shall be presumed to include the date of stack test and each and every day of operation thereafter until compliance is demonstrated under normal and representative process and operating conditions, except to the extent that the facility can prove to the satisfaction of the Department that there were intervening days during which no violation occurred or that the violation was not continuing in nature; and
- C. the licensee may, upon the approval of the Department following the successful demonstration of compliance at alternative load conditions, operate under such alternative load conditions on an interim basis prior to a demonstration of compliance under normal and representative process and operating conditions.

[MEDEP Chapter 115]

- (13) Notwithstanding any other provisions in the State Implementation Plan approved by the EPA or Section 114(a) of the CAA, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any statute, regulation, or Part 70 license requirement. [MEDEP Chapter 115]
- (14) The licensee shall maintain records of malfunctions, failures, downtime, and any other similar change in operation of air pollution control systems or the emissions unit itself that would affect emission and that is not consistent with the terms and conditions of the air emission license. The licensee shall notify the Department within two (2) days or the next state working day, whichever is later, of such occasions where such changes result in an increase of emissions. The licensee shall report all excess emissions in the units of the applicable emission limitation. [MEDEP Chapter 115]
- (15) Upon written request from the Department, the licensee shall establish and maintain such records, make such reports, install, use and maintain such monitoring equipment, sample such emissions (in accordance with such methods, at such locations, at such intervals, and in such a manner as the Department shall prescribe), and provide other information as the Department may reasonably require to determine the licensee's compliance status. [MEDEP Chapter 115]

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SPECIFIC CONDITIONS

(16) Boilers #1 and #2

- A. Boilers #1 and #2 shall fire #6 fuel oil with a sulfur content not to exceed 2.0%. [MEDEP Chapter 115, BPT]
- B. Emissions shall not exceed the following for each boiler [MEDEP Chapter 115, Chapter 103, BPT]:

<u>Pollutant</u>	<u>Lb/MMBtu</u>	<u>lb/hr</u>
PM	0.2	2.09
PM_{10}	-	2.09
SO_2	-	21.98
NO_X	-	3.84
СО	-	0.35
VOC	-	0.11

C. Visible emissions from the stacks serving Boilers #1 and #2 shall not exceed 30% opacity on a six (6) minute block average basis, except for no more than two (2), six (6) minute block average in a 3-hour period. [MEDEP Chapter 101]

(17) Emergency Generators #1 and #2

Specific Condition 17, for emergency generators #1 and #2 shall be effective until July 1st, 2004. After this date, emergency generators #1 and #2 shall be taken out of service, and Specific Condition 18 shall be in effect for emergency generator #3. [MEDEP Chapter 115, BPT]

- A. Emergency generators #1 and #2 shall be limited to 500 hours of operation combined. (12 month rolling total) An operating log shall be kept to document compliance. [MEDEP Chapter 115, BPT]
- B. Emergency generators #1 and #2 shall fire diesel fuel with a sulfur content not to exceed 0.05%. Delivery receipts shall be kept documenting sulfur content. [MEDEP Chapter 115, BPT]
- C. Emergency generators #1 and #2 shall each not exceed the following emission limits: [MEDEP Chapter 115, BPT]

Equipment		PM	PM_{10}	SO ₂	NO _x	co	voc
Generator #1	Lb/hr	0.19	0.19	0.08	6.88	1.48	0.55
Generator #2	Lb/hr	0.16	0.16	0.07	6.04	1.30	0.48

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D. Visible emissions from emergency generators #1 and #2 shall each not exceed 20% opacity on a six (6) minute block average basis, except for no more than two (2) six (6) minute block averages in a 3-hour period. [MEDEP Chapter 101]

(18) Emergency Generator #3

Specific Condition 18, for emergency generator #3 shall become effective on July 1st, 2004, when emergency generators #1 and #2 are taken out of service, and Specific Condition 17 expires. [MEDEP Chapter 115, BACT]

- A. Emergency generator #3 shall be limited to 500 hours of operation. (12 month rolling total) An operating log shall be kept and hour meter shall be operated to document compliance. [MEDEP Chapter 115, BACT]
- B. Emergency generator #3 shall fire diesel fuel with a sulfur content not to exceed 0.05%. Delivery receipts shall be kept documenting sulfur content. [MEDEP Chapter 115, BACT]
- C. Emergency generator #3 shall not exceed the following emission limits: [MEDEP Chapter 115, Chapter 103, BACT]

Equipment		PM	PM_{10}	SO_2	NO _x	CO	voc
Generator #3	Lb/MMBtu	0.12	-	-	-	-	-
	Lb/hr	0.16	0.16	0.07	6.04	1.30	0.48

D. Visible emissions from emergency generator #3 shall each not exceed 20% opacity on a six (6) minute block average basis, except for no more than two (2) six (6) minute block averages in a 3-hour period. [MEDEP Chapter 101]

(19) <u>Fuel Use Limits</u>

RCH shall not exceed an annual fuel use of 200,000 gallons of #6 fuel oil with a maximum sulfur content not to exceed 2.0% by weight. (based on a 12 month rolling total) Delivery receipts shall be kept documenting quantity received and sulfur content. [MEDEP Chapter 115, BPT]

(20) RCH shall notify the Department within 48 hours and submit a report to the Department on a <u>quarterly basis</u> if a malfunction or breakdown in any component causes a violation of any emission standard (38 MRSA §605).

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(21)	Payment of Annual License F	<u>ee</u>		
	RCH shall pay the annual air 31st of each year. Pursuant to the stated timeframe is suffic MRSA §341-D, subsection 3.	o 38 MRSA §35 ient grounds fo	53-A, failure to pay the or revocation of the lie	s annual fee in
DONI	E AND DATED IN AUGUSTA, M	IAINE THIS	DAY OF	2004.
DEPA	ARTMENT OF ENVIRONMEN	TAL PROTEC	CTION	
BY:_	DAWN R. GALLAGHER, CO	OMMICCIONE		
	DAWN R. GALLAGHER, CO	OMMISSIONE	K	
				_
The to	erm of this license shall be five of the PLEASE NOTE ATTACHED SHE	(5) years from t	he signature date abov	
Date		(5) years from t EET FOR GUIDAN 4/2/2004	he signature date abov	
Date Date	PLEASE NOTE ATTACHED SHE	(5) years from t EET FOR GUIDAN <u>4/2/2004</u> 2004	he signature date abov	EDURES